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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/710,961		08/15/2004	Scott L. Nielson	4960 EXAMINER	
22913	7590	06/28/2006			
WORKMA			FREJD, RUSSELL WARREN		
60 EAST SO		NYDEGGER & SEE EMPLE	ART UNIT	PAPER NUMBER	
1000 EAGL			2128		
SALT LAK	E CITY,	UT 84111	DATE MAILED: 06/28/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		10/710,961	NIELSON ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Russell Frejd	2128					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exter after - If NC - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tire will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).					
Status								
2a)	Responsive to communication(s) filed on <u>15 Au</u> This action is FINAL . 2b) This Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro-						
Dispositi	on of Claims							
5)□ 6)⊠ 7)□ 8)□	Claim(s) 1-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-33 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers	vn from consideration.						
_	The specification is objected to by the Examiner	r_						
10)	The drawing(s) filed on is/are: a) access applicant may not request that any objection to the december of the december of the december of the correction of the correcti	epted or b) objected to by the drawing(s) be held in abeyance. Second is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).					
Priority u	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice (3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	•					

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Examination of Application #10/710,961

1. Claims 1-33 of application 10/710,961, filed on 15-August-2004, are presented for examination.

Claim Objections under 37 CFR 1.75(d)(1)

2. Claims 1, 3, 8, 9, 12, 14, 19, 20, 23, 25, 30, and 31 are objected to under 37 CFR 1.75(d)(1), wherein --

The claim or claims must conform to the invention as set forth in the remainder of the specification and the terms and phrases used in the claims must find clear support or antecedent basis in the description so that the meaning of the terms in the claims may be ascertainable by reference to the description. (See 1.58(a))

In regard to claims 1, 12 and 23, the use of the term "and" on lines 4 and 7, should be deleted, and the term "Selecting" on line 7 should not be capitalized.

In regard to claims 3, 14 and 25 on line 3; claims 8, 19, 30 and 31 on line 5; and claims 9 and 20 on line 4; the use of the period and the subsequent capitalization of the next word needs to be corrected.

Claim Rejections under 35 U.S.C. § 101

- 35 U.S.C. 101 reads as follows:

 Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter or any new and useful improvement thereof, may obtain a patent therefore, subject to the conditions and requirements of this title.
- 3.1 Claims 1-33 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The invention claims (claim 1 preamble), "A method to automatically create a three-dimensional nail object."

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- 3.2 MPEP Section 2106(IV)(B)(2)(b)(ii) provides that a statutory computer process is determined not by how the computer performs the process, but by what the computer does to achieve a practical application with a useful, concrete and tangible result. For example, a computer process that simply calculates a mathematical algorithm that models noise is nonstatutory, while a claimed process for digitally filtering noise employing the mathematical algorithm is statutory. The long line of cases in this area that are referred to in MPEP Section 2106(IV)(B)(2)(b)(ii) exemplify this requirement, by utilizing in the claim language, terms such as controlling, executing, changing and removing. In view of the aforementioned requirement and the interim guidelines for 101 eligibility, the Examiner respectfully contends that the claim language of independent claims 1, 12, and 23, do not claim a practical application with a tangible result, that language claiming: (in claim 1) starting (emphasis added) with a threedimensional array of data representing a digitized nail surface; measuring key reference points along the tip of the nail surface along the X-axis, Y-axis, Z-axis and the periphery of the tip of the digitized nail surface; selecting a preexisting nail tip three-dimensional point array that closely matches the key reference points; and duplicating the digitized nail surface area and raising the duplicate surface area on the Z-axis to align with the top value of the selected nail tip, and combining the nail tip, the duplicated nail surface and the digitized nail surface into a new preferred three-dimensional artificial nail object that conforms to an expected result so that the new generated nail object will fit over the digitized nail surface and create a desired artificial nail appearance.
- 3.3 For at least these reasons, the Examiner respectfully posits that the claims of the present invention do not meet the criteria for a statutory process. Accordingly, the claims are determined

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to be a method to automatically create a three-dimensional nail object, consisting solely of mathematical operations, converting one set of numbers into another set of numbers, whereby the method does not manipulate appropriate subject matter, and thus cannot constitute a statutory process (MPEP Section 2106(IV)(B)(2)(c)).

3.4 The Examiner respectfully posits that claim 23-33 of the present invention do not meet the criteria for a statutory process, as these claims are determined to be a program per se, consisting of software modules that implement the method to automatically create a three-dimensional nail object, whereby the method does not manipulate appropriate subject matter, and thus cannot constitute a statutory process (MPEP Section 2106(IV)(B)(2)(c)).

Claim Rejections under 35 U.S.C. § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4.1 Claims 1-3, 5, 6, 8, 10-14, 16, 17, 19, 21-25, 27, 28, 30, 32 and 33 are rejected under 35 U.S.C. 102(a) as being anticipated by Yogo et al., hereinafter Yogo, USP Publication 2004/0143359 A1.
- 4.2 In regard to claims 1, 12 and 23, a method to automatically create a three-dimensional nail object [sec. 0002], comprising: starting with a three-dimensional array of data representing a digitized nail surface [0009], and; measuring key reference points along the tip of the nail surface

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along the X-axis, Y-axis, Z-axis and the periphery of the tip of the digitized nail surface 0030, see "length" i.e. tip in 0032 and 0034], selecting a preexisting nail tip three-dimensional point array that closely matches the key reference points [0006]; and duplicating the digitized nail surface area and raising the duplicate surface area on the Z-axis to align with the top value of the selected nail tip [0034], and; combining the nail tip, the duplicated nail surface and the digitized nail surface into a new preferred three-dimensional artificial nail object that conforms to an expected result so that the new generated nail object will fit over the digitized nail surface and create a desired artificial nail appearance [0033 and 0034].

Claims 2, 13 and 24: wherein starting with a three-dimensional array of data representing a digitized nail surface includes any data that can be used to represent a three-dimensional object [0009].

Claims 3, 14 and 25: wherein the three-dimensional array of data may be represented as points of data representing an X-axis, Y-axis and Z-axis. The three-dimensional array of data may also include the points defining the periphery of the tip of the digitized nail surface [0030] and 0006].

Claims 5, 16 and 27: wherein measuring key reference points includes determining the arc of the digitized nail surface along the X-axis and/or determining the arc of the nail surface along the Y-axis [0033 and 0035 "top surface"].

Claims 6, 17 and 28: wherein measuring key reference points includes evaluating threedimensional points along the periphery of the tip of the nail surface [0030 and 0034].

Claims 8, 19 and 30: wherein the duplicating of a digitized nail surface includes replicating the three-dimensional points of the digitized nail surface and manipulating those points on the Z- **Serial Number: 10/710,961 Page 5**

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axis to gain a desired thickness to the final customized nail object. This replicated array of points will become part of the top surface of the customized nail object [0030 and 0034].

Claims 10, 21 and 32: wherein the combination of the duplicated nail surface, the selected tip and the digitized nail surface includes aligning the selecting tip to the duplicated nail surface to form the top of the customized nail object and then aligning the digitized nail surface to the other objects to form the customized fit and bottom of the customized nail object [0035].

Claims 11, 22 and 33: wherein the desired nail object in its final state is a customized three-dimensional object representing an artificial nail that is desired, which fits over the digitized nail surface [0033 and 0034].

Claim Objections

5. Claims 4, 7, 9, 15, 18, 20, 26, 29 and 31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Yogo does not specifically disclose measurement values in millimeters or inches, modifying various nail tip objects, or a smoothing function.

Response Guidelines

- A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) days from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned (see MPEP 710.02, 710.02(b)).
- 6.1 Any response to the Examiner in regard to this non-final action should be

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directed to: Russell Frejd, telephone number (571) 272-3779, Monday-Friday

from 0530 to 1400 ET, or the examiner's supervisor, Kamini Shah, telephone number (571) 272-2279. Inquires of a general nature or

relating to the status of this application should be directed to the TC2100

Group Receptionist (571) 272-2100.

mailed to: Commissioner of Patents and Trademarks

P.O. Box 1450, Alexandria, VA 22313-1450

or faxed to: (571) 273-8300

Hand-delivered responses should be brought to the Customer Service Window, Randolph Building, 401 Dulany Street, Alexandria, VA, 22314.

Date: 24-June-2006

RUSSELL FREJD PRIMARY EXAMINER